1890MNRAS..50..334.

Observations of Comet 1888 (*Barnard, Sept.* 2), *made at Sydney Observatory with the* 11½*-inch Equatoreal and Filar Micrometer.*

(*Communicated by H. C. Russell, B.A., F.R.S., Government Astronomer.*)

Date.	Sydney M.T.	Star.	Comp.	Comet − Star ΔR.A.	Comet − Star ΔN.P.D.	Comet's Apparent R.A.	Comet's Apparent N.P.D.	Log. $p\Delta$ for R.A.	Log. $p\Delta$ for N.P.D.
1889.	h m s			m s	′ ″	h m s	° ′ ″		
Aug. 13	7 20 43	1	10	+4 37·24	− 6 19·7	19 19 16·47	95 30 55·0	9·478$_n$	0·635
19	8 0 49	2	10	−4 41·90	+10 56·8	19 4 45·77	96 25 22·1	9·184$_n$	0·612

Mean Places of the Comparison Stars for 1889·0.

Star.	R.A. 1889·0.	Reduction.	N.P.D. 1889·0.	Reduction.	Authority.
	h m s	s	° ′ ″	″	
1	19 14 37·13	+2·10	95 37 23·3	−8·6	Radcliffe 2nd Cat. 1844, Yarnall 8255.
2	19 9 25·62	+2·05	96 14 33·9	−8·6	Lalande 36137.

The foregoing late observations may perhaps be useful in checking the orbit of the comet; they were made by Mr. J. A. Pollock.

Sydney Observatory:
1889 *December* 31.

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Observations of Phenomena of Jupiter's Satellites at Windsor, New South Wales, in the Year 1889. By John Tebbutt.

Day of Obs.	Satellite.	Phenomenon.	Phase.	Aperture of Telescope.	Mag. Power.	Greenwich Mean Time of Observation. h m s	Mean Time of Nautical Almanac. h m s
1889.							
May 9	I.	Ecl. D.	Last seen	8-inch	75	1 0 31	1 0 2
21	III.	,,	Began to fade	,,	,,	5 52 52	5 57 30
21	III.	,,	Last seen	,,	,,	5 59 58	
June 1	I.	Tr. Ingr.	Ext. contact	,,	130	22 47 8	22 49
1	I.	,,	Bisection	,,	,,	22 49 5	
1	I.	,,	Int. contact	,,	,,	22 51 34	
2	I.	Tr. Egr.	Int. contact	,,	,,	0 59 53	1 6
2	I.	,,	Bisection	,,	,,	1 1 38	
2	I.	,,	Ext. contact	,,	,,	1 4 22	
2	I.	Occ. R.	Bisection	$4\frac{1}{2}$-inch	90	22 24 17	22 24
2	I.	,,	Last contact	,,	,,	22 26 17	
9	I.	Ecl. D.	Began to fade	,,	,,	21 29 18	21 33 4
9	I.	,,	Last seen	,,	,,	21 33 26	

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